



JPW 1637

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Dated: 8-16-05 Signature: Maura A. Gallagher
(Maura A. Gallagher)

Docket No.: CSHL-P02-010
(PATENT)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of:
Hannon et al.

Application No.: 09/866557

Confirmation No.: 4804

Filed: May 24, 2001

Art Unit: 1637

For: METHODS AND COMPOSITIONS FOR
RNA INTERFERENCE

Examiner: C. B. Wilder

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT (IDS)

MS Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

Pursuant to 37 CFR 1.56, 1.97 and 1.98, the attention of the Patent and Trademark Office is hereby directed to the references listed on the attached PTO/SB/08. It is respectfully requested that the information be expressly considered during the prosecution of this application, and that the references be made of record therein and appear among the "References Cited" on any patent to issue therefrom.

This Supplemental Information Disclosure Statement is filed before the mailing date of a first Office Action after the filing of a Request for Continued Examination under 37 CFR 1.114 (37 CFR 1.97(b)(4)).

Applicant has not submitted copies of each cited U.S. patent and U.S. patent application as required by 37 CFR 1.98(a)(2)(i), amended October 2004, as the U.S. Patent and Trademark Office has waived this requirement for all U.S. patent applications. Applicant submits herewith copies of foreign and non-patents in accordance with 37 CFR 1.98(a)(2).

In accordance with 37 CFR 1.97(g), the filing of this Supplemental Information Disclosure Statement shall not be construed to mean that a search has been made or that no other

material information as defined in 37 CFR 1.56(a) exists. In accordance with 37 CFR 1.97(h), the filing of this Supplemental Information Disclosure statement shall not be construed to be an admission that any patent, publication or other information referred to therein is "prior art" for this invention unless specifically designated as such.

It is submitted that the Supplemental Information Disclosure Statement is in compliance with 37 CFR 1.98 and the Examiner is respectfully requested to consider the listed references.

The Director is hereby authorized to charge any deficiency in the fees filed, asserted to be filed or which should have been filed herewith (or with any paper hereafter filed in this application by this firm) to our Deposit Account No. 18-1945, under Order No. CSHL-P02-010. A duplicate copy of this paper is enclosed.

Dated: August 16, 2005

Respectfully submitted,

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Substitute for form 1449A/B/PTO			Complete if Known		
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)			Application Number	09/866557	
			Filing Date	May 24, 2001	
			First Named Inventor	Scott Hammond	
			Art Unit	1637	
			Examiner Name	Wilder, C. B.	
Sheet	1	of	3	Attorney Docket Number	CSHL-P02-010

CA.U.S. PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Document Number		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)				
AA		2005/0164210		07-28-2005	Mittal et al.	

CBFOREIGN PATENT DOCUMENTS							
Examiner Initials*	Cite No. ¹	Foreign Patent Document		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)					
	BA	WO	04/029219	04-08-2004	Fridman et al.		
	BB	WO	00/44914	08-03-2000	Li et al.		
	BC	WO	01/29058	04-26-2001	Mello et al.		

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NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	CA	Ambros V, Dicing Up RNAs, Science 293: 811-813 (2001).	
	CB	Bernstein E, et al., The rest is silence, RNA 7(11):1509-21 (2001).	
	CC	Bernstein E, et al., Role for a bidentate ribonuclease in the initiation step of RNA interference, Nature 409(6818):363-6 (2001).	
	CD	Bernstein E, et al., Dicer is essential for mouse development, Nat Genet. 35(3):215-7 (2003); Epub 2003 Oct 5.	
	CE	Carmell MA, et al., The Argonaute family: tentacles that reach into RNAi, developmental control, stem cell maintenance, and tumorigenesis, Genes Dev. 16(21):2733-42 (2002).	
	CF	Carmell MA, et al., Germline transmission of RNAi in mice, Nat Struct Biol. 10(2):91-2 (2003).	
	CG	Carmell MA, et al., RNase III enzymes and the initiation of gene silencing, Nat Struct Mol Biol. 11(3):214-8 (2004).	
	CH	Caudy AA, et al., Fragile X-related protein and VIG associate with the RNA interference machinery, Genes Dev. 16(19):2491-6 (2002).	
	CI	Caudy AA, et al., A micrococcal nuclease homologue in RNAi effector complexes, Nature 425(6956):411-4 (2003).	
	CJ	Caudy AA, et al., Induction and biochemical purification of RNA-induced silencing complex from Drosophila S2 cells, Methods Mol Biol. 265:59-72 (2004).	
	CK	Cleary MA, et al., Production of complex nucleic acid libraries using highly parallel in situ oligonucleotide synthesis, Nat Methods. 1(3):241-8 (2004); Epub 2004 Nov 18.	
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	CM	Denli AM, et al., RNAi: an ever-growing puzzle, Trends Biochem Sci. 28(4):196-201 (2003).	
	CN	Denli AM, et al., Processing of primary microRNAs by the Microprocessor complex, Nature. 432(7014):231-5 (2004); Epub 2004 Nov 7.	
	CO	Fraser A., Human Genes Hit the Big Screen, Nature 428: 375-378 (2004).	
	CP	Gupta S, et al., Inducible, reversible, and stable RNA interference in mammalian cells, Proc	

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Substitute for form 1449A/B/PTO			Complete if Known	
			Application Number	09/866557
INFORMATION DISCLOSURE STATEMENT BY APPLICANT			Filing Date	May 24, 2001
			First Named Inventor	Scott Hammond
			Art Unit	1637
			Examiner Name	Wilder, C. B.
			Attorney Docket Number	CSHL-P02-010
			Sheet	2
<i>(Use as many sheets as necessary)</i>				

		Natl Acad Sci USA 101(7):1927-32 (2004); Epub 2004 Feb 4.	
CQ		Hammond SM, et al., Post-transcriptional gene silencing by double-stranded RNA, Nat Rev Genet. 2(2):110-9 (2001).	
CR		Hannon GJ, RNA interference, Nature 418(6894):244-51 (2002).	
CS		Hannon GJ, et al., RNA interference by short hairpin RNAs expressed in vertebrate cells, Methods Mol Biol. 257:255-66 (2004).	
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CU		He L, et al., MicroRNAs: small RNAs with a big role in gene regulation, Nat Rev Genet. 5(7):522-31 (2004).	
CV		He L, et al., A microRNA polycistron as a potential human oncogene, Nature 435(7043):828-33 (2005).	
CW		Hemann MT, et al., An epi-allelic series of p53 hypomorphs created by stable RNAi produces distinct tumor phenotypes in vivo, Nat Genet. 33(3):396-400 (2003); Epub 2003 Feb 3.	
CX		Jackson, AL, et al., Expression profiling reveals off-target gene regulation by RNAi, Nature Biotechnology 21(6), 635-638 (June 2003).	
CY		Ketting, RF, et al., Dicer functions in RNA interference and in synthesis of small RNA involved in developmental timing in <i>C. elegans</i> , Genes Dev 15, 2654-2659. (Oct 15, 2001).	
CZ		Lee, YS, et al., Distinct Roles for Drosophila Dicer-1 and Dicer-2 in the siRNA/miRNA Silencing Pathways, Cell 117, 69-81 (Apr 2, 2004).	
CA1		Liu J, et al., Argonaute2 is the catalytic engine of mammalian RNAi, Science 305(5689):1437-41 (2004); Epub 2004 Jul 29.	
CB1		Liu J, et al., MicroRNA-dependent localization of targeted mRNAs to mammalian P-bodies, Nat Cell Biol. 7(7):719-23 (2005); Epub 2005 Jun 5.	
CC1		Lund E, et al., Nuclear Export of MicroRNA Precursors, Science 303, 95-98 (Jan 2, 2004).	
CD1		McCaffrey AP, et al., RNA interference in adult mice, Nature 418(6893):38-9 (2002).	
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CG1		Paddison PJ, et al., RNA interference: the new somatic cell genetics?, Cancer Cell. 2(1):17-23 (2002).	
CH1		Paddison PJ, et al., siRNAs and shRNAs: skeleton keys to the human genome, Curr Opin Mol Ther. 5(3):217-24 (2003).	
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CN1		Pham JW, et al., A Dicer-2-Dependent 80S Complex Cleaves Targeted mRNAs during RNAi in Drosophila, Cell 117, 83-94 (Apr 2, 2004).	
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CT1		Silva J, et al., RNA-interference-based functional genomics in mammalian cells: reverse genetics coming of age, Oncogene. 23(51):8401-9 (2004).	
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CY1		Song JJ, et al., Crystal structure of Argonaute and its implications for RISC slicer activity, Science 305(5689):1434-7 (2004); Epub 2004 Jul 29.	
CZ1		Svoboda P, et al., RNAi and expression of retrotransposons MuERV-L and IAP in preimplantation mouse embryos; Dev Biol. 269(1):276-85 (2004).	
CA2		Tabara H, et al., The dsRNA Binding Protein RDE-4 Interacts with RDE-1, DCR-1, and a DEXH-Box Helicase to Direct RNAi in C. elegans, Cell 109, 861-871. (Jun 28, 2002).	
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CC2		Ui-Tei, K. et al., Sensitive Assay of RNA Interference in Drosophila and Chinese Hamster Cultured Cells Using Firefly Luciferase Gene as Target, FEBS Letters 479: 79-82 (2000).	
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